## BULK SPECIFIC GRAVITY AND MOISTURE DETERMINATION (Rock, Gravel, Shale, Soil Clods, etc.)

Location		Date
Watershed	Subwatershed	Site
Contract No.	Contractor	
Tested by Con	mputed by	Checked by
	Moisture Determination	
Weight of moist sample plus container		
Weight of dry sample plus container		
3. Weight of container		
4. Weight of dry sample = $(2)$ – $(3)$		
5. Moisture content = $[(1 - 2) \div 4] 100$		
2, 3, 40, 41		
6. Weight of container (basket) or cord in air	in dir	
18. Bulk density, ovendry $(\gamma_d) = (15) \times 62.4$		lb/ft
Bulk specific gravity — m  19. Weight of sample in air  20. Weight of sample plus wax in air		
21. Weight of wax in air = 20 - 19		
22. Weight of sample plus wax in water		
23. Volume of sample plus wax by weight = 20 - 22 or measured volume		
24. Volume of wax = (21) ÷ specific gravity of wax		
26. Bulk specific gravity, natural moisture ( $G_{mm}$ ) = (19)÷ (25)		
27. Bulk specific gravity, ovendry $(G_m) = (26) \div [(1 + (5))]$		
28. Bulk density, natural moisture $(\gamma_m) = (26) \times 62.4$		
29. Bulk density, ovendry $(\gamma_4) = 2 \times 62.4$		lb/ft